

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-6. (cancelled).

1        7. (previously presented) An iris camera module ,  
2 comprising:  
3            an image pickup optical system for picking up an image of  
4            the iris;  
5            a target optical system for displaying a target for the  
6            eye; and  
7            a target screen where the target is displayed, wherein  
8            the target optical system and the image pickup optical  
9            system are integrated into a single unit, and  
10          wherein  
11         the image pickup optical system includes:  
12            an infrared illuminating section for irradiating an  
13            infrared ray onto the eye,  
14            an image pickup section for picking up the image of  
15            the iris by detecting the infrared ray reflected  
16            on the eye, and  
17            an image pickup optical section for guiding the  
18            infrared ray reflected on the eye to the image  
19            pickup section; and  
20          wherein the target optical system includes a target  
21            optical section for guiding the image of the target  
22            on the target screen to the eye; and further  
23          wherein  
24         the image pickup section includes:  
25            an image pickup element for picking up the image of  
26            the iris,

27           a storage for storing a reference iris information,  
28           and  
29           a comparator section for comparing an information  
30           based on the image of the iris picked up by the  
31           image pickup section with the reference iris  
32           information to output the comparison result as  
33           to whether matching is obtained; and  
34           wherein the reference iris information can be overwritten  
35           only a predetermined number of times in the storage.

Claims 8-14 (canceled).

1       15. (previously presented) An iris camera module  
2 comprising:  
3           an image pickup optical system for picking up an image of  
4           the iris of a user; and  
5           a target optical system including a target screen for  
6           displaying a target for aligning the eye of the  
7           user, wherein the target optical system and the  
8           image pickup optical system are integrated onto a  
9           common substrate; wherein the image pickup optical  
10          system includes:  
11           an infrared illuminating section for irradiating an  
12           infrared ray onto the eye,  
13           an image pickup section for picking up the image of  
14           the iris by detecting the infrared ray  
15           reflected on the eye, and  
16           an image pickup optical section for guiding the  
17           infrared ray reflected on the eye to the image  
18           pickup section,  
19           and further wherein the target optical system includes a  
20           target optical section for guiding the image of the  
21           target on the target screen to the eye; and wherein  
22           the image pickup section further includes:

23           an image pickup element for picking up the image of  
24           the iris;  
25           a storage for storing a reference iris information;  
26           and  
27           a comparator section for comparing an information  
28           based on the image of the iris picked up by the  
29           image pickup section with the reference iris  
30           information to output the comparison result as  
31           to whether matching is obtained,  
32           wherein the reference iris information can be overwritten  
33           only a predetermined number of times in the storage.

1       16. (previously presented) An iris camera module  
2 comprising:  
3           an image pickup optical system for picking up an image of  
4           the iris of a user; and  
5           a target optical system including a target screen for  
6           displaying a target for aligning the eye of the  
7           user, wherein the target optical system and the  
8           image pickup optical system are integrated onto a  
9           common substrate; wherein the image pickup optical  
10          system includes:  
11           an infrared illuminating section for irradiating an  
12           infrared ray onto the eye,  
13           an image pickup section for picking up the image of  
14           the iris by detecting the infrared ray  
15           reflected on the eye, and  
16           an image pickup optical section for guiding the  
17           infrared ray reflected on the eye to the image  
18           pickup section; and wherein  
19           the target optical system includes a target optical  
20           section for guiding the image of the target on  
21           the target screen to the eye;  
22           wherein the image pickup section further includes:

23       an image pickup element for picking up the image of the  
24              iris; and  
25        a connector section for coupling an external circuit  
26              detachable from the image pickup section,  
27        and wherein the external circuit includes:  
28              a storage for storing a reference iris information;  
29              and  
30              a comparator section for comparing information based  
31              on the iris picked up by the image pickup  
32              section with the reference iris information to  
33              output the comparison result as to whether  
34              matching is obtained.

Claims 17-18 (canceled).

1       19. (previously presented) An iris camera module  
2 comprising:  
3        an image pickup optical system for picking up an image of  
4              the iris of a user, said image optical system  
5              including:  
6              an illuminating section for irradiating a ray onto  
7              the eye;  
8              an image pickup section for picking up the image of  
9              the iris by detecting the ray reflected on the  
10             eye; and  
11              an image pickup optical section for guiding the ray  
12              reflected on the eye to the image pickup  
13             section;  
14        a target optical system for displaying a target for  
15              aligning the eye of the user, said target optical  
16             system including:  
17              a target screen;  
18              a target optical section for guiding the image of  
19              the target on the target screen to the eye; and

20           a screen illuminating section for illuminating the  
21           target screen with either ambient light or  
22           artificial light;  
23           a storage for storing a reference iris information; and  
24           a comparator section for comparing an information based  
25           on the image of the iris picked up by the image  
26           pickup section with the reference iris information  
27           to output the comparison result as to whether  
28           matching is obtained, wherein  
29           the reference iris information can be overwritten only a  
30           predetermined number of times in the internal  
31           storage.

1       20. (previously presented) An iris camera module  
2 according to claim 19, wherein the image pickup optical  
3 section and the target optical section include a common half  
4 mirror for reflecting to guide the infrared ray reflected on  
5 the eye to the image pickup section and guiding the image of  
6 the target on the target screen to the eye without reflecting  
7 the image.

1       21. (previously presented) An iris camera module  
2 according to claim 19, wherein the image pickup optical  
3 section and the target optical section include a common half  
4 mirror for guiding the infrared ray reflected on the eye to  
5 the image pickup section without reflecting the infrared ray  
6 and reflecting to guide the image of the target on the target  
7 screen to the eye.

1       Claims 22-38 (deleted).

1